

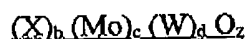
Serial No.: 09/869,987
 Reply to Office Action of: June 11, 2003
 Atty. Docket No.: JHT-0002

LISTING OF CLAIMS

The submitted listing of claims will replace all prior versions, and listings, of claims in the application. All claims are listed with the status in parentheses immediately following the claim number. Claims 1 and 2 currently amended.

1. (CURRENTLY AMENDED) A process for hydrofining oil feedstock which comprises:

contacting the feedstock with a hydrofining catalyst in a hydrofining zone under hydrofining conditions wherein the hydrofining catalyst comprises a bulk metal catalyst ~~containing non-noble Group VIII metal molybdate in which at least a portion but less than all of the molybdenum is replaced by tungsten~~ represented by the formula:



wherein X is a non-noble Group VIII metal, the molar ratio of b:(c+d) is 0.5/1 to 3/1.

2. (CURRENTLY AMENDED) The process of claim 1 wherein the bulk metal catalyst is represented by the formula:



wherein X is non-noble Group VIII metal, the molar ratio of b:(c+d) is 0.5/1 to 3/1, the molar ratio of c:d is >0.01/1, and $z = [2b + 6(c+d)]/2$.

3. (ORIGINAL) The process of claim 2 wherein the molar ratio of b:(c+d) is 0.75/1 to 1.5/1.

4. (ORIGINAL) The process of claim 3 wherein the molar ratio of b:(c+d) is 0.75/1 to 1.25/1.

5. (ORIGINAL) The process of claim 2 wherein the molar ratio of c:d is >0.1/1.

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6. (ORIGINAL) The process of claim 5 wherein the molar ratio of c:d is 1/10 to 10/1.
7. (ORIGINAL) The process of claim 6 wherein the molar ratio of c:d is 1/3 to 3/1.
8. (ORIGINAL) The process of claim 1 wherein the hydrofining conditions include temperatures of from 200 to 400 °C, hydrogen pressures of from 150 to 3500 psig (1136 to 24234 kPa), liquid hourly space velocities of from 0.5 to 5 and hydrogen treat gas rates of from 100 to 5000 scf/B (17.8 to 890 m³/m³).
9. (ORIGINAL) The process of claim 1 wherein the hydrofining catalyst contains from 5 to 95 wt.%, based on hydrofining catalyst, of a hydrotreating catalyst containing at least one Group VIB and at least one non-noble metal Group VIII metal on a refractory oxide support.
10. (ORIGINAL) The process of claim 9 wherein the hydrotreating catalyst comprises at least one of molybdenum and tungsten and at least one of cobalt and nickel.
11. (ORIGINAL) The process of claim 9 wherein the bulk metal catalyst and the hydrotreating catalyst are in separate beds.
12. (ORIGINAL) The process of claim 1 wherein the hydrofining of the feedstock selectively removes nitrogen and sulfur containing compounds.
13. (ORIGINAL) The process of claim 1 wherein the hydrofining of the feedstock improves the color and stability of the feedstock.
14. (ORIGINAL) The process of claim 1 wherein the hydrofining of the feedstock removes solvent contaminants in the feedstock.
15. (ORIGINAL) The process of claim 2 wherein X is Ni or Co.
16. (ORIGINAL) The process of claim 2 wherein X is Ni.